CLAIMS

WHAT IS CLAIMED:

1. A method for supplanting a Motif dialog box, comprising:

interposing a functionality between a graphical interface of an application and an Xt

  Library layered on top an X-Window system;

intercepting a function call from the graphical interface for a display of a Motif dialog

  box from the X-Window system;

determining whether the Motif dialog box is to be supplanted; and

supplanting the Motif dialog box.

2. The method of claim 1, wherein intercepting the function call includes calling the interposed function corresponding to an original function.

3. The method of claim 2, further comprising redirecting an operating system from the original function to the interposed function.

4. The method of claim 1, wherein determining whether the Motif dialog box is to be supplanted includes:

calling a naming function to identify the Motif dialog box in the intercepted call; and

comparing the name returned by the naming function against a plurality of Motif

  dialog box names that are to be supplanted.

5. The method of claim 1, wherein supplanting the Motif dialog box includes:

modifying at least one parameter in the intercepted call;

re-calling the display of the Motif dialog box with the modified parameter; and

displaying a modified Motif dialog box.

6. The method of claim 1, wherein supplanting the Motif dialog box includes:

calling a callback function; or

suppressing the Motif dialog box.

7. The method of claim 1, wherein, upon determining whether the Motif dialog box is to be supplanted, the method includes:

if the Motif dialog box is to be modified:

  modifying at least one parameter in the intercepted call;

5   re-calling the display of the Motif dialog box with the modified parameter; and

6   displaying a modified Motif dialog box; or

7   if the Motif dialog box is to be suppressed:

8   calling a callback function; and

9   suppressing the Motif dialog box.

1   8.   The method of claim 7, wherein determining whether the Motif dialog box is

2 to be supplanted includes:

3   calling a naming function to identify the Motif dialog box in the intercepted call; and

4   comparing the name returned by the naming function against a plurality of Motif

5   dialog box names that are to be supplanted.

1   9.   A program storage medium encoded with instruction that, when executed by a

2 computer, perform a method for supplanting a Motif dialog box, the encoded method

3 comprising:

4   interposing a functionality between a graphical interface of an application and an Xt

5   Library layered on top an X-Window system;

6   intercepting a function call from the graphical interface for a display of a Motif dialog

7   box from the X-Window system;

8   determining whether the Motif dialog box is to be supplanted; and

9   supplanting the Motif dialog box.

1   10.   The program storage medium of claim 9, wherein intercepting the function

2 call in the encoded method includes calling the interposed function corresponding to an

3 original function.

1   11.   The program storage medium of claim 10, wherein the encoded method

2 further comprises redirecting an operating system from the original function to the interposed

3 function.

1   12.   The program storage medium of claim 9, wherein determining whether the

2 Motif dialog box is to be supplanted in the encoded method includes:

3   calling a naming function to identify the Motif dialog box in the intercepted call; and

4   comparing the name returned by the naming function against a plurality of Motif

5   dialog box names that are to be supplanted.

1   13.   The program storage medium of claim 9, wherein supplanting the Motif dialog

2   box in the encoded method includes:

3   modifying at least one parameter in the intercepted call;

4   re-calling the display of the Motif dialog box with the modified parameter; and

5   displaying a modified Motif dialog box.

1   14.   The program storage medium of claim 9, wherein supplanting the Motif dialog

2   box in the encoded method includes:

3   calling a callback function; or

4   suppressing the Motif dialog box.

1   15.   The program storage medium of claim 9, wherein, upon determining whether

2   the Motif dialog box is to be supplanted, the encoded method includes:

3   if the Motif dialog box is to be modified:

4   modifying at least one parameter in the intercepted call;

5   re-calling the display of the Motif dialog box with the modified parameter; and

6   displaying a modified Motif dialog box; or

7   if the Motif dialog box is to be suppressed:

8   calling a callback function; and

9   suppressing the Motif dialog box.

1   16.   The program storage medium of claim 15, wherein determining whether the

2   Motif dialog box is to be supplanted in the encoded method includes:

3   calling a naming function to identify the Motif dialog box in the intercepted call; and

4   comparing the name returned by the naming function against a plurality of Motif

5   dialog box names that are to be supplanted.

1   17.   A computing device programmed to perform a method for supplanting a Motif

2   dialog box, the programmed method comprising:

3   interposing a functionality between a graphical interface of an application and an Xt

4   Library layered on top an X-Window system;

5   intercepting a function call from the graphical interface for a display of a Motif dialog

6   box from the X-Window system;

7   determining whether the Motif dialog box is to be supplanted; and

8   supplanting the Motif dialog box.

1   18.   The programmed computing device of claim 17, wherein intercepting the

2   function call in the programmed method includes calling the interposed function

3   corresponding to an original function.

1   19.   The programmed computing device of claim 18, wherein the programmed

2   method further comprises redirecting an operating system from the original function to the

3   interposed function.

1   20.   The programmed computing device of claim 17, wherein determining whether

2   the Motif dialog box is to be supplanted in the programmed method includes:

3   calling a naming function to identify the Motif dialog box in the intercepted call; and

4   comparing the name returned by the naming function against a plurality of Motif

              dialog box names that are to be supplanted.

        21.   The programmed computing device of claim 17, wherein supplanting the

Motif dialog box in the programmed method includes:

        modifying at least one parameter in the intercepted call;

        re-calling the display of the Motif dialog box with the modified parameter; and

4   displaying a modified Motif dialog box.

        22.   The programmed computing device of claim 17, wherein supplanting the

Motif dialog box in the programmed method includes:

3   calling a callback function; and

4   suppressing the Motif dialog box.

1   23.   The programmed computing device of claim 22, wherein determining whether

2   the Motif dialog box is to be supplanted in the programmed method includes:

3   calling a naming function to identify the Motif dialog box in the intercepted call; and

4   comparing the name returned by the naming function against a plurality of Motif

5   dialog box names that are to be supplanted.

1   24.   The programmed computing device of claim 17, wherein, upon determining

2   whether the Motif dialog box is to be supplanted, the programmed method includes:

3   if the Motif dialog box is to be modified:

4   modifying at least one parameter in the intercepted call;

5   re-calling the display of the Motif dialog box with the modified parameter; and

6   displaying a modified Motif dialog box; or

7   if the Motif dialog box is to be suppressed:

8   calling a callback function; and

9   suppressing the Motif dialog box.

1   25.   The programmed computing device of claim 24, wherein intercepting the

2   function call in the programmed method includes calling an interposed function

3   corresponding to an original function.

1   26.   The programmed computing device of claim 24, wherein the programmed

2   method further comprises redirecting an operating system from the original function to the

3   interposed function.

1   27.   An apparatus for performing a method for supplanting a Motif dialog box, the

apparatus comprising:

means for interposing a functionality between a graphical interface of an application
    and an Xt Library layered on top an X-Window system;

means for intercepting a function call from the graphical interface for a display of a
    Motif dialog box from the X-Window system;

means for determining whether the Motif dialog box is to be supplanted; and

means for supplanting the Motif dialog box.

1   28.   The apparatus of claim 27, wherein the means for intercepting the function

2   call includes means for calling the interposed function corresponding to an original function.

1   29.   The apparatus of claim 28, further comprising means for redirecting an

2   operating system from the original function to the interposed function.

1   30.   The apparatus of claim 27, wherein the means for determining whether the

2   Motif dialog box is to be supplanted includes:

3   means for calling a naming function to identify the Motif dialog box in the intercepted

4   call; and

5   means for comparing the name returned by the naming function against a plurality of

6   Motif dialog box names that are to be supplanted.

1   31.   The apparatus of claim 27, wherein the means for supplanting the Motif dialog

2   box includes:

3   means for modifying at least one parameter in the intercepted call;

4   means for re-calling the display of the Motif dialog box with the modified parameter;

5   and

6   means for displaying a modified Motif dialog box.

1   32.   The apparatus of claim 27, wherein the means for supplanting the Motif dialog

2   box includes:

3   means for calling a callback function; and

4   means for suppressing the Motif dialog box.

33.   The apparatus of claim 32, wherein the means for determining whether the

Motif dialog box is to be supplanted includes:

     means for calling a naming function to identify the Motif dialog box in the intercepted

          call; and

     means for comparing the name returned by the naming function against a plurality of

          Motif dialog box names that are to be supplanted.

34.   The apparatus of claim 27, wherein, upon determining whether the Motif

dialog box is to be supplanted, the means for supplanting:

     if the Motif dialog box is to be modified:

4   modifies at least one parameter in the intercepted call;

5   re-calls the display of the Motif dialog box with the modified parameter; and

6   displays a modified Motif dialog box; or

7   if the Motif dialog box is to be suppressed:

8   calls a callback function; and

9   suppresses the Motif dialog box.

1   35.   The apparatus of claim 34, wherein the means for determining whether the

2   Motif dialog box is to be supplanted includes:

3   means for calling a naming function to identify the Motif dialog box in the intercepted

4   call; and

5 means for comparing the name returned by the naming function against a plurality of
6 Motif dialog box names that are to be supplanted.

1 36. A computing system programmed to supplant a Motif dialog box, the
2 computing system comprising:
3 an application including:
4 a graphical interface;
5 an X-Window system;
6 an Xt library layered on top the X-Window system, the Xt Library including an
7 original function for calling a display of a Motif dialog box; and
8 an interposed library interposed between the graphical interface and the Xt library, the
9 interposed library including an interposed function for intercepting the
10 function call for the display of the Motif dialog box, determining whether the
11 Motif dialog box is to be supplanted, and supplanting the Motif dialog box.

37. The computing system of claim 36, wherein the computing system comprises
a single computing device.

38. The computing system of claim 36, wherein the computing system comprises
a plurality of computing devices.

39. The computing system of claim 38, wherein the application resides on a first
one of the plurality of computing devices and at least one of the X-Window system, the Xt
library, and the interposed library reside on a second one of the plurality of computing
devices.

1 40. The computing system of claim 36, wherein the application is either a
2 Netscape Navigator™ application or an Adobe Acrobat™ reader application.

1 41. The computing system of claim 36, wherein the graphical interface is a Motif
2 graphical interface.

1 42. The computing system of claim 36, wherein the original function is an original
2 *XtManageChild()* function.

1 43. The computing system of claim 36, wherein the interposed function is an
2 interposed *XtManageChild()* function.

1   44.   The computing system of claim 36, wherein the computing system further
2   comprises a data store of names of Motif dialog boxes to be supplanted, and wherein
3   determining whether the Motif dialog box is to be supplanted includes:
4   calling a naming function to identify the Motif dialog box in the intercepted call; and
5   comparing the name returned by the naming function against the Motif dialog box
6   names that are to be supplanted.

1   45.   The computing system of claim 36, wherein supplanting the Motif dialog box
2   includes:
3   modifying at least one parameter in the intercepted call;
4   re-calling the display of the Motif dialog box with the modified parameter; and
5   displaying a modified Motif dialog box.

1   46.   The computing system of claim 36, wherein supplanting the Motif dialog box
2   includes:
3   calling a callback function; and
4   suppressing the Motif dialog box.

1   47.   The computing system of claim 36, wherein, upon determining whether the
2   Motif dialog box is to be supplanted, the interposed function:
3   if the Motif dialog box is to be modified:
4   modifies at least one parameter in the intercepted call;
5   re-calls the display of the Motif dialog box with the modified parameter; and
6   displays a modified Motif dialog box; or
7   if the Motif dialog box is to be suppressed:
8   calls a callback function; and
9   suppresses the Motif dialog box.

1   48.   A computing system programmed to supplant a Motif dialog box, the
2   computing system comprising:
3   an application including:
4   a graphical interface;
5   an X-Window system;
6   an Xt library layered on top the X-Window system, the Xt Library including an
7   original function for calling a display of a Motif dialog box; and

8   an interposed library interposed between the graphical interface and the Xt library, the

9   interposed library including means for intercepting the function call for the

10   display of the Motif dialog box, determining whether the Motif dialog box is

11   to be supplanted, and supplanting the Motif dialog box.

1   49.   The computing system of claim 48, wherein the computing system comprises

2   a single computing device.

1   50.   The computing system of claim 48, wherein the computing system comprises

2   a plurality of computing devices.

1   51.   The computing system of claim 50, wherein the application resides on a first

2   one of the plurality of computing devices and at least one of the X-Window system, the Xt

library, and the interposed library reside on a second one of the plurality of computing

devices.

        52.   The computing system of claim 48, wherein the application is either a

Netscape Navigator™ application or an Adobe Acrobat™ reader application.

        53.   The computing system of claim 48, wherein the graphical interface is a Motif

graphical interface.

        54.   The computing system of claim 48, wherein the original function is an original

2   *XtManageChild()* function.

1   55.   The computing system of claim 48, wherein the means comprises an

2   interposed *XtManageChild()* function.

1   56.   The computing system of claim 48, wherein the computing system further

2   comprises a data store of names of Motif dialog boxes to be supplanted, and the means

3   includes:

4   means for calling a naming function to identify the Motif dialog box in the intercepted

5   call; and

6   means for comparing the name returned by the naming function against the Motif

7   dialog box names that are to be supplanted.

1   57.   The computing system of claim 48, wherein the means includes:

means for modifying at least one parameter in the intercepted call;

means for re-calling the display of the Motif dialog box with the modified parameter;

and

means for displaying a modified Motif dialog box.

58.   The computing system of claim 48, wherein means includes:

means for calling a callback function; and

means for suppressing the Motif dialog box.

59.   The computing system of claim 48, wherein, upon determining whether the

Motif dialog box is to be supplanted:

if the Motif dialog box is to be modified, the means is further for:

modifying at least one parameter in the intercepted call;

re-calling the display of the Motif dialog box with the modified parameter; and

displaying a modified Motif dialog box; or

if the Motif dialog box is to be suppressed, the means is further for:

calling a callback function; and

suppressing the Motif dialog box.